PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 58915WO006	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2004/032616	International filing date (day/month/year) 01 October 2004 (01.10.2004)	Priority date (day/month/year) 03 October 2003 (03.10.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant 3M INNOVATIVE PROPERTIES COMPANY				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total	of 7 sheets, including this co	ver sheet.	
	In the attached sheets, any refere to the international preliminary r	ence to the written opinion of eport on patentability (Chapte	the International Searching Authority should be read as a reference or I) instead.	
3.	3. This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).			
			Date of issuance of this report 03 April 2006 (03.04.2006)	
	The International Bure 34, chemin des Col	ombettes	Authorized officer Athina Nickitas-Etienne	

Telephone No. +41 22 338 89 95

Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNAT	IONAL SEARCE	HING AUTH	ORITY			
To: DEAN A. ERSFELD OFFICE OF INTELLECTUAL PROPERTY COUNSEL POST OFFICE BOX 33427 SAINT PAUL, MN 55133-3427				REC'D 2 0 APR 200		
		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
					(PCT Rule 43 <i>bis</i> .	1)
				Date of mailing (day/month/year)	18 APR 2	2005
Applicant's	s or agent's file r	eference		FOR FURTHER ACTION See paragraph 2 below		
58915WO			T v	(1(Datades data (des (os	
Internation	al application No		International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US04		action (TPC)	01 October 2004 (01.10 or both national classifica		03 October 2003 (03.	10.2003)
514/293, 2	51K 31/4745, 31/ 232.8, 253.03, 21	496, 31/506, 8, 214.03, 2	, 31/5377, 31/541, 31/551 17.07, 273, 228.5; 546/82	; C07D 471/04, 401/ 2; 544/126, 60, 361;	/14, 405/14; A61P 37/ 540/575, 585, 597	02 and US C1.:
Applicant						
3M INOV	ATIVE PROPER	TIES COMP	PANY			
1. This c	pinion contains i	ndications re	lating to the following iten	ns:		
	Box No. I	Basis of the	e opinion			
	Box No. II	Priority				
	Box No. III	Non-establ	ishment of opinion with re	gard to novelty, inve	entive step and industri	al applicability
	Box No. IV	Lack of un	ity of invention			
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			ep or industrial			
	Box No. VI	Certain do	cuments cited			
Box No. VII Certain defects in the international a			fects in the international ap	plication		•
	Box No. VIII	Certain ob	servations on the internation	onal application		
	THER ACTIO					
Intern Autho	ational Preliming ority other than th	ary Examinia is one to be	ninary examination is maing Authority ("IPEA") e the IPEA and the chosen tional Searching Authority	xcept that this does IPEA has notified th	not apply where the La International Bureau	applicant chooses an
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For fu	urther options, se-	e Form PCT	/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.						
Name and	mailing address	of the ISA/ U	JS	Authorized office		6 0
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			Evelyn Huang	7. Kobe	is for	
P.O. Box 1450		Evelyn Huang 7, Roberts for Telephone No. (571) 272-1600				
Alexandria, Virginia 22313-1450			Telephone No. (211) 717-1000		

Alexandria, 1430
Alexandria, 1430
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.	
PCT/US04/32616	

Box No. I Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
This opinion has been established on the basis of a translation from the original language into the following language ————, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a. type of material					
a sequence listing					
table(s) related to the sequence listing					
b. format of material					
in written format					
in computer readable form					
c. time of filing/furnishing					
contained in international application as filed.					
filed together with the international application in computer readable form.					
furnished subsequently to this Authority for the purposes of search.					
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional comments:					
,					

Form PCT/ISA/237(Box No. I) (January 2004)

International application	No.
PCT/LIS04/32616	

INTERNATIONAL SEARCHING AUTHORITY Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of: the entire international application claims Nos. 5-10,14,21,25,34,38,41,64,65 and 76-90 because: the said international application, or the said claim Nos. ... ____ relate to the following subject matter which does not require an international preliminary examination (specify): the description, claims or drawings (indicate particular elements below) or said claims Nos. 5-10.14.21.25.34.38.41.64.65 and 76-90 are so unclear that no meaningful opinion could be formed (specify): They are improperly multiply dependent claims. PCT Rule 6.4 (a). the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed. no international search report has been established for said claims Nos. ___ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that: the written form has not been furnished does not comply with the standard the computer readable form has not been furnished does not comply with the standard the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.

Form PCT/ISA/237 (Box No. III) (January 2004)

International application No.	
PCT/11904/32616	

Box	No.	IV Lack of unity of invention
1.	Ŋ	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
	إ	paid additional fees
	Į	paid additional fees under protest
		not paid additional fees
2.		This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant
3. '	t This A	to pay additional fees. Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
		complied with
		not complied with for the following reasons:
		e lack of unity section of the International Search Report(Form PCT/ISA/210)
		·
		·
4. C	onseq	mently, this opinion has been established in respect of the following parts of the international application:
	\boxtimes	all parts.
		the parts relating to claims Nos

Form PCT/ISA/237 (Box No. IV) (January 2004)

International application No. PCT/US04/32616

Box No. V Reasoned statement under Rule 43 bis.1(a) (i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Staten	nent			
	Novelty (N)	Claims	Please See Continuation Sheet	YES
		Claims	Please See Continuation Sheet	NO
	Inventive step (IS)	Claims	Please See Continuation Sheet	YES
		Claims	Please See Continuation Sheet	NO
	Industrial applicability (IA)	Claims	Please See Continuation Sheet	YES
		Claims	Please See Continuation Sheet	Nо

2. Citations and explanations:

Claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, and 66-75 meet the criteria set out in PCT Article 33(2)-(3), because the closest prior art, US 6,200,592 B1, only teaches alkoxy, and does not teach or fairly suggest the instant -O- R_3 substituent on the imidazoquinoline.

Claims 91-93 meet the criteria set out in PCT Article 33(2)-(3), because the closest prior art, US 4,698,348 A, only teaches methoxy, and does not teach or fairly suggest the instant -O- R_3 -substituent on the imidazoquinoline.

Claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, 66-75, and 91-93 meet the criteria set out in PCT Article 33(4), and thus find industrial applicability because the subject matter claimed can be made or used in the pharmaceutical industry as immunomodulating agent in treatment of diseases.

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/32616

Supplemental Box In case the space in any of the preceding boxes is not sufficient.
V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63, 66-75, 91-93
The opinion as to Novelty was negative (No) with respect to claims NONE The opinion as to Inventive Step was positive (Yes) with respect to claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39-40, 42-63, 66-
75, 91-93 The opinion as to Inventive Step was negative(NO) with respect to claims NONE The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40,
42-63, 66-75, 91-93 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

Form PCT/ISA/237 (Supplemental Box) (January 2004)